

Abstract of the Disclosure

Methods and systems for per-session dynamic management of media gateway resources are disclosed. According to one method, the logical and physical resources in a media gateway are divided and dynamically managed

5 at the Transport Layer (i.e. OSI Layer 4), which results in finer granularity than managing such resources statically at the Data Link Layer (i.e. OSI Layer 2) or Network Layer (i.e. OSI Layer 3). Voice-processing resources provided by voice server cards may be pooled into a common pool available to all external networks. For each new call/session, the dynamic resource manager of the

10 media gateway dynamically allocates a voice chip from the pooled voice processing resources, and assigns a logical resource identifier (e.g. a local IP and local UDP pair) to the session. When a network interface card receives incoming voice packets, it checks the destination IP and UDP and optionally the source IP and UDP to find out, and forward voice packets to, the voice chip

15 assigned to the session.